



Synergy of GIS and Remote Sensing in Civil Engineering

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Message from the Guest Editors

The incessant growth of cities, the degradation of natural capital, the loss of ecosystem services, climate change, and the greater occurrence of natural disasters emerge among nowadays' focal threats. The analysis of the urban growth pattern, especially that of civil constructions, is a continuous process that involves scientists, resource managers, and planners. In this sense, the mapping and monitoring of the spatial and temporal dynamics of civil constructions and the change in land use using remote sensing techniques and GIS are key. In this way, remote sensing technologies together with GIS can contribute significantly to paving the way towards better knowledge-based, cost-effective, accurate, and efficient decision-making in civil engineering that benefits climate change adaptation and mitigation. These are the key vectors that motivate this Special Issue, which welcomes state-of-the-art research articles and review articles dealing with the synergies of GIS and remote sensing applied to civil engineering studies.





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